

	Application N .	Applicant(s)
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Notic of Allowability	10/022,338	HAYASHI, TADASHI
Notic of Anowability	Examiner	Art Unit
	Iraj A Mohandesi	2834
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicated IGHTS. This application is subjection	s application. If not included ation will be mailed in due course. THIS
1. This communication is responsive to <u>o3/31/2004</u> .		
2. X The allowed claim(s) is/are <u>1-13,16,17,19,20</u> .		
3. The drawings filed on 14 October 2003 are accepted by the	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority unal All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Application N	lo
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		aply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review (P	'TO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	he Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLO	AL must be submitted. Note the GICAL MATERIAL:
Attachm nt(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	nal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summ	nary (PTO-413),
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail 08), 7. 🗌 Examiner's Ame	l Date endment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stat	tement of Reasons for Allowance
of Biological Material	9.	

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DETAILED ACTION

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

Claims 14,15,18,21 and 22 have been canceled.

Claims 1,2,8,12,13,19, have been amended, and containing limitation of allowable claims 9,16,20.

Regarding claim 1,2 and 13, the prior art of the record in particular Kataoka'564 do not teach a supporting structure for a control apparatus for a vibration type actuator, including inter alia at least a frequency of the alternating signal as a speed control parameter, said control apparatus comprising: a driving circuit capable of changing a voltage of the alternating signal to be applied to said electro-mechanical energy conversion element and a control unit communicatively coupled to said driving circuit, wherein said control unit causes said driving circuit to change the voltage of the alternating: signal so that at least an absolute value of a slope of a frequency-speed characteristic of said actuator is within a desired range in a frequency band of predetermined range.

Regarding claim 8,12 and 19, the prior art of the record in particular Kataoka'564 do not teach a supporting structure for a control apparatus for a vibration type actuator, including inter alia at least a frequency of the alternating signal as a speed control parameter, a control unit communicatively coupled to said driving circuit. wherein said control unit controls said driving circuit in a frequency range higher than a

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predetermined frequency so that the voltage of the alternating signal decreases as the predetermined frequency becomes a higher frequency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Communication

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is 571-272-2028. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IM June 14,2004